

Title (en)  
SLOPE BLOCK AND SUPPORT STRUCTURE

Title (de)  
ABHANGBLOCKIERUNGS- UND -STÜTZSTRUKTUR

Title (fr)  
STRUCTURE DE BLOCS À PENTE ET SUPPORT

Publication  
**EP 3118335 A4 20170906 (EN)**

Application  
**EP 15760839 A 20150310**

Priority  
• JP 2014046517 A 20140310  
• JP 2015057003 W 20150310

Abstract (en)  
[origin: EP3118335A1] A support structure (32) for supporting checker bricks (5) in a hot-blast stove includes deflecting bricks (7) supporting the checker bricks (5) and support bricks (6) supporting the deflecting bricks (7). The deflecting brick (7) includes a brick body (70) and a deflecting passage (75) connected to through-holes (54) in the checker bricks (5) and opened at an opening section on a side surface of the brick body (70). The deflecting bricks (7) are arranged along an imaginary deflecting plane that partitions the inside of the hot-blast stove into an upper side and a lower side. A horizontal passages (35) connected to the deflecting passages (75) are defined between the deflecting bricks (7) and the support bricks (6).

IPC 8 full level  
**C21B 9/04** (2006.01); **C21B 9/06** (2006.01); **F27D 1/14** (2006.01)

CPC (source: EP KR RU)  
**C21B 9/04** (2013.01 - EP KR RU); **C21B 9/06** (2013.01 - EP KR); **F27D 1/0006** (2013.01 - KR); **F27D 1/004** (2013.01 - KR); **F27D 1/04** (2013.01 - KR); **F27D 1/14** (2013.01 - KR RU)

Citation (search report)  
• [X] US 2467166 A 19490412 - THORPE DREW M  
• [X] US 2221416 A 19401112 - TAU BRUCE E  
• [A] US 2768822 A 19561030 - HERMANN FREY KURT PAUL  
• See also references of WO 2015137336A1

Cited by  
WO2022078582A1; WO2022079080A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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CN 106103748 A 20161109; CN 106103748 B 20180724; JP 2015168873 A 20150928; JP 5689996 B1 20150325; KR 101832186 B1 20180226;  
KR 20160131052 A 20161115; RU 2016139361 A 20180410; RU 2655876 C2 20180529; WO 2015137336 A1 20150917

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